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CENTRAL INTELLIGENCE AGENCY

REPORT NO.

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# INFORMATION REPORT

CD NO.

COUNTRY Poland

DATE DISTR. 16 June 1950

SUBJECT    **Falva Ironworks in Swietochlowice,  
Upper Silesia**

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# EXHIBIT

1. Designation:

Formerly Iethlen-Kalva Ironworks in Swietochlowice ( . 51/Y 47).  
The present designation: Huta Florian, Swietochlowice.

2. Plant history:

The plant was assigned to the Katowice Corporation for Mining and Ironworks in Katowice (L 51/Y 57) until <sup>1945</sup> when it was transferred to the Hermann Goering Trust. It became a Polish nationalized enterprise in 1945.

### 3. Production:

a. Coke	130,000 tons annually
Pig iron	70,000 " "
steel )	
steel castings )	95,000 " "
b. Rolled production:	
round and square iron	8 to 30 mm
flat iron	16 to 52 x 5 x 16 mm
hoop iron	18 to 40 x 2 x 5 mm
tube sections	50 and 70 x 2 mm
angle iron	30 to 50 mm
T- iron	30 to 50 mm
hoop iron	50 to 110 mm
small shapes	
angle iron	13 to 26 mm
hoon iron	13 to 51 x 1 to 5 mm
round iron	28 to 55 mm
square iron	27 to 55 mm
flat iron	45 to 104 x 10 to 30 mm
hoop iron for tube rolling mill and cold rolling mill	90 to 130mm
strip steel	5 to 110 x 0,1 to 3 mm

Annual output of rolled products: 65,000 tons  
" " of horseshoes, size 00 : 65,000 tons

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## c. By-products:

coke-oven gas  
 ammonia  
 benzol  
 crude benzol  
 commercial benzol  
 toluol  
 solvent naphtha  
 naphthalene  
 blast-furnace gas  
 slag stones (1,000 stones per hour)

## 4. Plant installations:

No information is available on the value of the installations.

## a. Coking plant

two batteries of 40 chambers each (old construction design)  
 one battery of 50 chambers, 180 tons processed in 24 hours  
 one battery of 32 chambers, 180 tons processed in 24 hours  
 Each battery had one ramming machine and coke pusher.  
 Grinding and mixing installation with mechanical feed and discharge (conveyor belt); dredging chain and rope haulage to the blast furnace burden dump; storage bunker.

## By-product installations:

separation of crude tar (four inclined tubular cooling apparatuses of 850 square meters each)  
 ammonia factory  
 benzol factory ("Still" type)

## b. Blast furnace installation:

two blast furnaces, daily output 250 tons each  
 one blast furnace, daily output 450 tons  
 two inclined elevators  
 one vertical elevator  
 three hot-blast stoves, heating surface ranging from 4,500 to 5,000 square meters  
 one electric blast-furnace gas cleaning machine (five filter units) (Siemens-Schuckert system); with spill valve for conducting excess gases to the boiler house.  
 One sintering plant with 2 one revolving drum 70 meters long and 3 meters in diameter. 300 tons processed in 24 hours.  
 Three gas-driven engine blowers of 500 HP each ("Koerting" two-cycle engines)  
 two electric turbo-blowers of 1,000 HP each  
 several electrically operated centrifugal pumps and steam piston pumps for the water supply.  
 Slag crushing installation with two stone crushers and one sieve drum  
 One slag stone factory (1,000 slag stones per hour)

## c. Power station

one heavy duty vertical tube boiler of 1,200 cubic meters fueled with coal dust and gas additions.  
 Three upper drums, each 7.5 meters long and 1,600 mm in diameter  
 one lower drum, 6.3 meters long and 1,400 mm in diameter  
 two coal dust mills for directly feeding the boiler  
 (two "resolutor" mills, 5 tons per hour each)

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one two-cylinder and 25,000 kws turbine for gauge pressure of 14 atmosphere and 350 centigrade steam temperature

The boiler house has an intake capacity of 45,000 cubic meters of blast furnace gas.

d. Open-hearth plant.

Two tilting open-hearth furnaces, 100 tons each  
 four open-hearth furnaces, 50 tons each  
 one open-hearth furnace, 20 tons (for steel casting charges)  
 one pig iron mixer  
 twelve three-phase generators, each processing 15 tons in 24 hours  
 charging machines  
 scrap bunker with four magnet cranes, 5-ton load capacity each  
 two electric scrap presses  
 three foundry cranes, 60 tons each  
 two upright cranes, 10 tons each  
 one fast-running 10-ton mold crane  
 two 10-ton bracket cranes over the foundry pits  
 one dolomite-calcining kiln  
 one repair forge

e. Steel casting foundry

six annealing and drying furnaces  
 one dressing plant for the molding batch  
 one cleaning shop with saws for cutting top discards  
 one workshop  
 one forge  
 one pattern-making shop  
 one pattern depot

f. Grey cast foundry

three cupola furnaces  
 two traveling cranes of 20 tons and 12 tons respectively  
 one sand preparing plant with pan grinders, ball mills and mixing machines  
 one foundry cleanings shop  
 one mechanical workshop with machine tools

g. Iron rolling mill

one blooming mill train  
 one "Morgan" rolling mill for ingots and flat blooms  
 (1) rolling train No. 1

This is a continuous roughing strand of rolls with two separate roll lines of six rolling stands each. Ingots heated in a gravity-discharge furnace (with semi-gas firing) are rolled to 70 mm in the first roll line. The rolls are operated by a 600 HP three-phase motor. There are two shears. The second line consists of the last roll stand with two auxiliary roll stands. A 265-finishing mill train with five roll stands and two planishing stands for hoop iron. The roll line is operated by a 1,000 HP three-phase motor. The 265-finishing mill train is also operated by a 1,000 HP three-phase motor.

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One rotating shear  
 automatic cooling board, 40 meters long  
 table roller, hoop iron reel  
 one traveling crane, 15 tons

**(2) Rolling train No. II**

one 350-roughing strand of rolls with three roll stands  
 and planishing stand operated by a 1,200 HP three-  
 phase motor  
 two 365-finishing mill trains with five roll stands  
 operated by a 1,100 three-phase motor  
 one automatic cooling board, 45 meters long  
 one rotating shear for angle iron 13 to 26 mm  
     I-iron 13 to 26 mm  
     hoop iron 13 to 51 x 1 to 5 mm

**(3) Rolling train No. III**

570-roughing strand of rolls with one roll stand  
 450-finishing mill train with three roll stands  
 Both trains are driven by a 1,200 HP three-phased motor  
 table roller  
 cooling board with two circular saws on carriages  
 Three assembly crabs  
 two magnet cranes for charging the ingots  
 one claw crane for distributing the bars  
dressing shop with dressing machines  
 binding shop  
 depot

h. Cold rolling mill  
 twenty-two roll stands with eight rolls  
 twenty-five roll stands with six rolls  
 one roll stand with 250-mm rolls  
 twenty-one pot annealing furnaces  
 two "Kattai" annealing furnaces  
 two pickling shops  
 sand cleaning machines  
 polishing machines  
 round shears  
 punches  
 tinning shop

i. Horseshoe factory  
 three light presses with roll stands  
 three heavy presses with roll stands

j. Administration building  
 plant railroad  
 cable way  
 repair shops  
 engine shed  
 warehouses and storage places  
 fire department

**Supply of raw materials:**

Coal shipments come from the Deutschlandgrube in

**Swietochlowice**

Other incoming shipments: Swedish ore and roasted pyrites

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Supplying plants:

**Limestone quarries in Maczekowitz (sic)**

**"Naglo" Lime Factory in Tarnowice**

**"Koenigshuette" Ironworks in Koenigshuette**

**"Giescha" Plant in Katowice**

**"Eintrachtshuette" Ironworks in Eintrachtshuette**

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Comment:

a. Until 1942 the Falva Ironworks was a subsidiary of the Bismarckshuette Ironworks Corporation, which was taken over by the Katowice Corporation for Mining and Ironworks in 1929. The Silesiahuette Ironworks Corporation had been fused with the Bismarckshuette at that time. This union was made to combine the organizational setup of the coal, pig iron, steel and refining industries.

b. The German management built the largest blast furnace of Upper Silesia in the Falva Ironworks in 1929, 1930. This blast furnace has a daily output of 450 tons of pig iron while the daily output of the Upper Silesian blast furnaces ordinarily does not exceed 250 tons (see para 4 b)

c. According to para 4b the Falva Ironworks has an annual pig iron capacity of about 300,000 tons and, according to para 4d, an annual ingot steel capacity of about 400,000 tons. The pig iron, steel and steel casting production figures reported in para 3a seem to be rather small compared to these capacity figures.

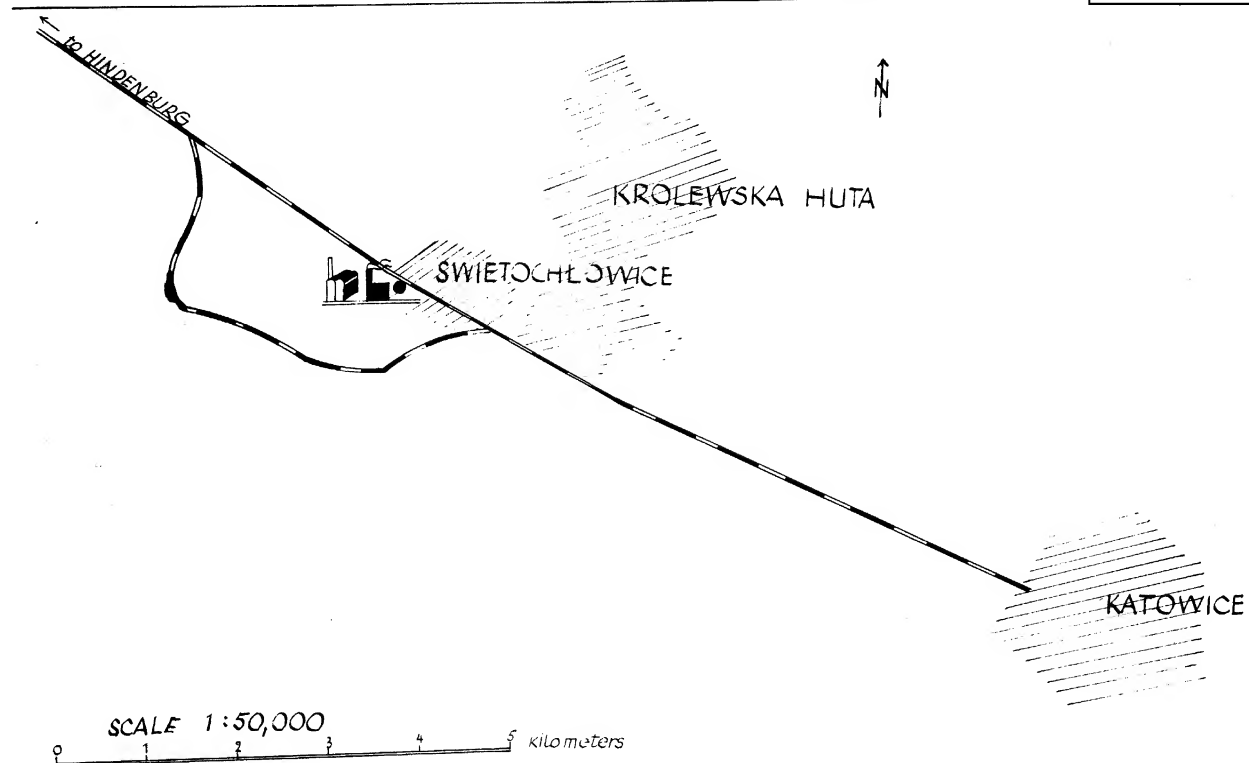
d. The power station (see para 4c) had a prewar installed capacity of 51,000 kws.

1 Annex, Location of "Falva" Ironworks in Swietochlowice, Upper Silesia.

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"Falva" Iron Mine SWIETOCHŁOWICE, Upper Silesia

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